

Air Transportation: 2002

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2002 Economic Census

Transportation and Warehousing

Industry Series



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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in "2" and "7".

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

- Policymaking agencies of the federal government use the data to monitor economic activity and to assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

INDUSTRY CLASSIFICATIONS

Data from the 2002 Economic Census are published primarily according to the 2002 North American Industry Classification System (NAICS). NAICS was first adopted in the United States, Canada, and Mexico in 1997. The 2002 Economic Census covers the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), largely covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 100 subsectors (three-digit codes), 317 industry groups (four-digit codes), and, as implemented in the United States, 1,179 industries (six-digit codes).

RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS

Prior to the 1997 Economic Census, data were published according to the Standard Industrial Classification (SIC) system. While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The 1997 Economic Census *Bridge Between NAICS and SIC* demonstrates the relationships between NAICS and SIC industries. Where changes are significant, it may not be possible to construct time series that include data for points both before and after 1997.

Most industry classifications remained unchanged between 1997 and 2002, but NAICS 2002 includes substantial revisions within the construction and wholesale trade sectors, and a number of revisions for the retail trade and information sectors. These changes are noted in industry definitions and will be demonstrated in the *Bridge Between NAICS 2002 and NAICS 1997*.

For 2002, data for enterprise support establishments (those functioning primarily to support the activities of their company's operating establishments, such as a warehouse or a research and development laboratory) are included in the industry that reflects their activities (such as warehousing). For 1997, such establishments were termed auxiliaries and were excluded from industry totals.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company. (For selected industries, only payroll, employment, and classification are collected for individual establishments, while other data are collected on a consolidated basis.)

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for states, metropolitan and micropolitan statistical areas, counties, and corporate municipalities (places) including cities, towns, townships, villages, and boroughs. Respondents were required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from administrative sources is used as a basis for coding.

AVAILABILITY OF ADDITIONAL DATA

All results of the 2002 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on compact discs and digital versatile discs (CD-ROMs and DVD-ROMs) for sale by the Census Bureau. The American FactFinder system at the Internet site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Internet site, write to the U.S. Census Bureau, Washington, DC 20233-6100, or call Customer Services at 301-763-4100.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart

from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some service trades in 1933. Censuses of construction, manufacturing, and the other business censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated, providing comparable census data across economic sectors and using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census report forms.

The range of industries covered in the economic census expanded between 1967 and 2002. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity. New for 2002 is coverage of four industries classified in the agriculture, forestry, and fishing sector under the SIC system: landscape architectural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. Reports for 1997 were published primarily on the Internet and copies of 1992 reports are also available there. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases that include all or nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for the 2002 Economic Census and related surveys is published in the *Guide to the 2002 Economic Census* at www.census.gov/econ/census02/guide. More information on the methodology, procedures, and history of the census will be published in the *History of the 2002 Economic Census* at www.census.gov/econ/www/history.html.

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Transportation and Warehousing

SCOPE

The Transportation and Warehousing sector (sector 48-49) includes industries providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. Establishments in these industries use transportation equipment or transportation related facilities as a productive asset. The type of equipment depends on the mode of transportation. The modes of transportation are air, rail, water, road, and pipeline.

The Transportation and Warehousing sector distinguishes three basic types of activities: subsectors for each mode of transportation, a subsector for warehousing and storage, and a subsector for establishments providing support activities for transportation. In addition, there are subsectors for establishments that provide passenger transportation for scenic and sightseeing purposes, postal services, and courier services.

A separate subsector for support activities is established in the sector because, first, support activities for transportation are inherently multimodal, such as freight transportation arrangement, or have multimodal aspects. Secondly, there are production process similarities among the support activity industries.

One of the support activities identified in the support activity subsector is the routine repair and maintenance of transportation equipment (e.g., aircraft at an airport, railroad rolling stock at a railroad terminal, or ships at a harbor or port facility). Such establishments do not perform complete overhauling or rebuilding of transportation equipment (i.e., periodic restoration of transportation equipment to original design specifications) or transportation equipment conversion (i.e., major modification to systems). An establishment that primarily performs factory (or shipyard) overhauls, rebuilding, or conversions of aircraft, railroad rolling stock, or a ship is classified in Subsector 336, Transportation Equipment Manufacturing according to the type of equipment.

Many of the establishments in this sector often operate on networks, with physical facilities, labor forces, and equipment spread over an extensive geographic area.

Warehousing establishments in this sector are distinguished from merchant wholesaling in that the warehouse establishments do not sell the goods.

The tabulations for this sector include warehousing establishments that primarily serve other establishments of the same enterprise.

Exclusions. The economic census does not include the following industries: NAICS 482, Railroad Transportation, and NAICS 491, Postal Service. Further, for NAICS 48111, Scheduled Air Transportation, data do not include large certificated passenger carriers that report to the Office of Airline Information, U.S. Department of Transportation. Also, excluded from this sector are establishments primarily engaged in providing travel agent services that support transportation and other establishments, such as hotels, businesses, and government agencies. These establishments are classified in Sector 56, Administrative and Support and Waste Management and Remediation Services. Also, establishments primarily engaged in providing rental and leasing of transportation equipment without operator are classified in Subsector 532, Rental and Leasing Services.

The tabulations for this sector do not include central administrative offices or other establishments that serve transportation and warehousing establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in NAICS sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These “nonemployers,” typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in *Nonemployer Statistics*. The contribution of nonemployers, relatively large for this sector, may be examined at www.census.gov/nonemployerimpact.

Definitions. Industry categories are defined in Appendix B, NAICS Codes, Titles, and Descriptions. Other terms are defined in Appendix A, Explanation of Terms.

REPORTS

The following reports provide statistics on this sector.

Industry Series. There are nine reports, each covering a group of related industries. The reports present, by kind of business for the United States, general statistics for establishments of firms with payroll on number of establishments, revenue, payroll, and employment; comparative statistics for 2002 and 1997; product lines; and concentration of business activity in the largest firms. The data in industry reports are preliminary and subject to change in the following reports.

Geographic Area Series. There is a separate report for each state, the District of Columbia, and the United States. Each state report presents, for establishments of firms with payroll, general statistics on number of establishments, revenue, payroll, and employment by kind of business for the state and metropolitan and micropolitan statistical areas. Greater kind-of-business detail is shown for larger areas. The United States report presents data for the United States as a whole for detailed kind-of-business classifications.

Subject Series:

- **Product Lines.** This report presents product lines data for establishments of firms with payroll by kind of business. Data are presented for the United States only.
- **Establishment and Firm Size (Including Legal Form of Organization).** This report presents revenue, payroll, and employment data for the United States by revenue size, by employment size, and by legal form of organization for establishments of firms with payroll; and by revenue size (including concentration by largest firms), by employment size, and by number of establishments operated (single units and multiunits) for firms with payroll.
- **Miscellaneous Subjects.** This report presents data for a variety of industry-specific topics for establishments of firms with payroll. Presentation of data varies by kind of business.

Other reports. Data for this sector are also included in reports with multisector coverage, including *Nonemployer Statistics*, *Comparative Statistics*, *Bridge Between 2002 NAICS and 1997 NAICS*, *Business Expenses*, and the Survey of Business Owners reports.

GEOGRAPHIC AREAS COVERED

The level of geographic detail varies by report. Maps are available at www.census.gov/econ2002maps. Notes specific to areas in the state are included in Appendix D, Geographic Notes. Data may be presented for –

1. The United States as a whole.
2. States and the District of Columbia.
3. Metropolitan and micropolitan statistical areas. A core based statistical area (CBSA) contains a core area with a substantial population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. CBSAs are differentiated into metropolitan and micropolitan statistical areas based on size criteria. Both metropolitan and micropolitan statistical areas are defined in terms of entire counties, and are listed in Appendix E, Metropolitan and Micropolitan Statistical Areas.
 - a. Metropolitan Statistical Areas (metro areas). Metro areas have at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.

-
- b. Micropolitan Statistical Areas (micro areas). Micro areas have at least one urban cluster of at least 10,000 but less than 50,000 population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - c. Metropolitan Divisions (metro divisions). If specified criteria are met, a metro area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as Metropolitan Divisions.
 - d. Combined Statistical Areas (combined areas). If specified criteria are met, adjacent metro and micro areas, in various combinations, may become the components of a new set of areas called Combined Statistical Areas. The areas that combine retain their own designations as metro or micro areas within the larger combined area.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 2002 data are expressed in 2002 dollars, and 1997 data, in 1997 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

COMPARABILITY OF THE 1997 AND 2002 ECONOMIC CENSUSES

Both the 2002 Economic Census and the 1997 Economic Census present data based on the North American Industry Classification System (NAICS). While there were revisions to some industries for 2002, none of those affect this sector.

These tables for 2002 include transportation and warehousing establishments that primarily serve other establishments of the same enterprise. These “enterprise support” establishments were not included in data for this sector in 1997, but were instead included in the “Other auxiliary establishments” kind-of-business category in the “Auxiliaries, Excluding Corporate, Subsidiary, and Regional Managing Offices” reports.

RELIABILITY OF DATA

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data. Data presented in the Miscellaneous Subjects and Product Lines reports for this sector are subject to sampling errors, as well as nonsampling errors.

The accuracy of these tabulated data is determined by the joint effects of the various nonsampling errors or by the joint effects of sampling and nonsampling errors. No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or business. However, the number of establishments in a kind-of-business classification is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The Census Bureau conducts the Service Annual Survey (SAS) each year. This survey, while providing more frequent observations, yields less kind-of-business and geographic detail than the economic census. In addition, the County Business Patterns program offers annual statistics on the

number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Service Sector Statistics Division, Utilities and Financial Census Branch, 1-800-541-8345 or ucb@census.gov.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these data:

D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals
N	Not available or not comparable
S	Withheld because estimates did not meet publication standards
X	Not applicable
Z	Less than half the unit shown
a	0 to 19 employees
b	20 to 99 employees
c	100 to 249 employees
e	250 to 499 employees
f	500 to 999 employees
g	1,000 to 2,499 employees
h	2,500 to 4,999 employees
i	5,000 to 9,999 employees
j	10,000 to 24,999 employees
k	25,000 to 49,999 employees
l	50,000 to 99,999 employees
m	100,000 employees or more
r	Revised
–	Represents zero (page image/print only)
(CC)	Consolidated city
(IC)	Independent city

Table 1. Summary Statistics for the United States: 2002

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

2002 NAICS code	Kind of business	Estab- lishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From admin- istrative records ¹	Estimated ²
481	Air transportation ³	3 847	17 973 037	3 549 375	823 086	85 884	4.0	13.0
4811	Scheduled air transportation ³	1 674	10 531 878	2 027 805	468 592	54 588	1.0	16.9
48111	Scheduled air transportation ³	1 674	10 531 878	2 027 805	468 592	54 588	1.0	16.9
481111	Scheduled passenger air transportation ³	1 301	8 913 350	1 673 720	381 927	45 164	.5	16.8
481112	Scheduled freight air transportation	373	1 618 528	354 085	86 665	9 424	3.5	17.7
4812	Nonscheduled air transportation	2 173	7 441 159	1 521 570	354 494	31 296	8.3	7.5
48121	Nonscheduled air transportation	2 173	7 441 159	1 521 570	354 494	31 296	8.3	7.5
481211	Nonscheduled chartered passenger air transportation	1 455	5 460 121	1 051 670	251 735	21 780	7.1	8.2
481212	Nonscheduled chartered freight air transportation	240	1 113 764	260 749	61 021	4 861	9.2	6.1
481219	Other nonscheduled air transportation	478	867 274	209 151	41 738	4 655	14.7	4.9

¹Includes revenue information obtained from administrative records of other federal agencies.

²Includes revenue information that was imputed based on historic data, administrative data, industry averages, or other statistical methods.

³Data do not include large certificated passenger carriers that report to the Office of Airline Information, U.S. Department of Transportation.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Table 2. Comparative Statistics for the United States (1997 NAICS Basis): 2002 and 1997

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 and 1997 Economic Censuses. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

1997 NAICS code	Kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)
481	Air transportation ¹	2002.. 3 847 1997.. 3 598	17 973 037 20 249 033	3 549 375 2 748 050	85 884 89 125
4811	Scheduled air transportation ¹	2002.. 1 674 1997.. 1 798	10 531 878 16 284 929	2 027 805 1 920 912	54 588 65 988
48111	Scheduled air transportation ¹	2002.. 1 674 1997.. 1 798	10 531 878 16 284 929	2 027 805 1 920 912	54 588 65 988
481111	Scheduled passenger air transportation ¹	2002.. 1 301 1997.. 1 434	8 913 350 12 196 148	1 673 720 1 308 073	45 164 42 754
481112	Scheduled freight air transportation	2002.. 373 1997.. 364	1 618 528 4 088 781	354 085 612 839	9 424 23 234
4812	Nonscheduled air transportation	2002.. 2 173 1997.. 1 800	7 441 159 3 964 104	1 521 570 827 138	31 296 23 137
48121	Nonscheduled air transportation	2002.. 2 173 1997.. 1 800	7 441 159 3 964 104	1 521 570 827 138	31 296 23 137
481211	Nonscheduled chartered passenger air transportation	2002.. 1 455 1997.. 1 365	5 460 121 2 702 834	1 051 670 535 643	21 780 15 175
481212	Nonscheduled chartered freight air transportation	2002.. 240 1997.. 165	1 113 764 770 188	260 749 148 939	4 861 4 009
481219	Other nonscheduled air transportation	2002.. 478 1997.. 270	867 274 491 082	209 151 142 556	4 655 3 953

¹Data do not include large certificated passenger carriers that report to the Office of Airline Information, U.S. Department of Transportation.

Note: The data in this table are based on the 2002 and 1997 Economic Censuses. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Table 3. Product Lines by Kind of Business for the United States: 2002

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line revenue			Response coverage ² (percent)
			Number	Total revenue (\$1,000)	Amount ¹ (\$1,000)	As percent of total revenue of—		
						Estab- lishments with the product line	All estab- lishments ¹	
481		Air transportation ³	3 847	X	17 973 037	X	100.0	73.4
	41010	Bus or other motor vehicle service, transit passenger services	8	13 249	109	.8	Z	X
	41170	Limousine or luxury sedan with drivers	6	8 955	109	1.2	Z	X
	43100	Fuel and lubricant sales	394	1 076 629	147 073	13.7	.8	X
	43300	New and used aircraft	74	625 229	43 819	7.0	.2	X
	43350	Aircraft parts and supplies sales	263	861 583	42 359	4.9	.2	X
	43750	Sales of other merchandise	194	491 668	15 821	3.2	.1	X
	45000	Scheduled domestic passenger revenue	694	5 314 166	4 743 649	89.3	26.4	X
	45010	Commuter domestic passenger revenue	370	1 146 094	916 540	80.0	5.1	X
	45020	Charter domestic passenger revenue	1 749	6 670 123	3 629 282	54.4	20.2	X
	45030	Sightseeing domestic passenger revenue	138	154 552	20 221	13.1	.1	X
	45040	Excess baggage charges, domestic passenger revenue	89	208 174	3 016	1.4	Z	X
	45050	Reservation cancellation fees, domestic passenger revenue	23	129 399	1 679	1.3	Z	X
	45090	Other passenger revenue, domestic	173	356 543	30 836	8.6	.2	X
	45100	Scheduled international passenger revenue	500	3 227 923	2 465 738	76.4	13.7	X
	45110	Commuter international passenger revenue	35	104 531	44 202	42.3	.2	X
	45120	Charter international passenger revenue	378	3 942 382	1 108 841	28.1	6.2	X
	45130	Sightseeing international passenger revenue	26	48 815	555	1.1	Z	X
	45140	Excess baggage charges, international passenger revenue	62	544 423	7 291	1.3	Z	X
	45150	Reservation cancellation fees, international passenger revenue	9	118 637	535	.5	Z	X
	45190	Other passenger revenue, international	43	411 514	18 204	4.4	.1	X
	45200	Domestic air freight revenue, including air courier services	1 332	6 728 871	1 534 159	22.8	8.5	X
	45210	International air freight revenue, including air courier services	609	4 570 251	1 217 487	26.6	6.8	X
	45220	Domestic air mail revenue, including air courier services	113	724 736	362 036	50.0	2.0	X
	45230	International air mail, revenue including air courier services	8	28 538	11 695	41.0	.1	X
	45300	Air ambulance	71	294 754	22 374	7.6	.1	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	331	997 767	28 222	2.8	.2	X
	45420	Aircraft rental or leasing without crew and/or pilot	210	669 472	58 368	8.7	.3	X
	45430	Aircraft maintenance and repair services	433	1 547 018	172 668	11.2	1.0	X
	45440	Aircraft cleaning services	55	176 443	1 747	1.0	Z	X
	45450	Flight training and instruction services	227	413 209	13 187	3.2	.1	X
	45490	Other airport or aircraft services	185	643 250	65 592	10.2	.4	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	519	1 118 200	801 155	71.6	4.5	X
	49810	All other operating revenue	624	4 832 650	444 324	9.2	2.5	X
4811		Scheduled air transportation ³	1 674	X	10 531 878	X	100.0	68.4
	43100	Fuel and lubricant sales	35	143 874	8 757	6.1	.1	X
	43350	Aircraft parts and supplies sales	30	166 586	3 539	2.1	Z	X
	43750	Sales of other merchandise	18	118 151	105	.1	Z	X
	45000	Scheduled domestic passenger revenue	683	5 224 520	4 740 742	90.7	45.0	X
	45010	Commuter domestic passenger revenue	361	1 133 778	914 421	80.7	8.7	X
	45020	Charter domestic passenger revenue	195	1 295 987	52 846	4.1	.5	X
	45030	Sightseeing domestic passenger revenue	7	9 270	2 585	27.9	Z	X
	45040	Excess baggage charges, domestic passenger revenue	81	203 314	2 852	1.4	Z	X
	45050	Reservation cancellation fees, domestic passenger revenue	7	87 083	1 515	1.7	Z	X
	45090	Other passenger revenue, domestic	86	194 133	5 170	2.7	Z	X
	45100	Scheduled international passenger revenue	494	2 976 102	2 436 472	81.9	23.1	X
	45110	Commuter international passenger revenue	31	99 562	43 765	44.0	.4	X
	45120	Charter international passenger revenue	56	517 552	8 824	1.7	.1	X
	45130	Sightseeing international passenger revenue	20	46 795	4 466	1.0	Z	X
	45140	Excess baggage charges, international passenger revenue	58	535 359	6 199	1.2	.1	X
	45150	Reservation cancellation fees, international passenger revenue	9	118 637	535	.5	Z	X
	45190	Other passenger revenue, international	26	363 665	15 866	4.4	.2	X
	45200	Domestic air freight revenue, including air courier services	971	5 075 509	909 658	17.9	8.6	X
	45210	International air freight revenue, including air courier services	464	3 160 892	847 388	26.8	8.0	X
	45220	Domestic air mail revenue, including air courier services	85	488 333	144 467	29.6	1.4	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	60	233 358	1 546	.7	Z	X
	45420	Aircraft rental or leasing without crew and/or pilot	10	57 104	2 145	3.8	Z	X
	45430	Aircraft maintenance and repair services	34	169 467	10 666	6.3	.1	X
	45450	Flight training and instruction services	7	46 220	105	.2	Z	X
	45490	Other airport or aircraft services	14	74 475	5 334	7.2	.1	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	21	219 312	4 686	2.1	Z	X
	49810	All other operating revenue	381	4 018 740	358 547	8.9	3.4	X
48111		Scheduled air transportation ³	1 674	X	10 531 878	X	100.0	68.4
	43100	Fuel and lubricant sales	35	143 874	8 757	6.1	.1	X
	43350	Aircraft parts and supplies sales	30	166 586	3 539	2.1	Z	X
	43750	Sales of other merchandise	18	118 151	105	.1	Z	X
	45000	Scheduled domestic passenger revenue	683	5 224 520	4 740 742	90.7	45.0	X
	45010	Commuter domestic passenger revenue	361	1 133 778	914 421	80.7	8.7	X
	45020	Charter domestic passenger revenue	195	1 295 987	52 846	4.1	.5	X
	45030	Sightseeing domestic passenger revenue	7	9 270	2 585	27.9	Z	X
	45040	Excess baggage charges, domestic passenger revenue	81	203 314	2 852	1.4	Z	X
	45050	Reservation cancellation fees, domestic passenger revenue	7	87 083	1 515	1.7	Z	X
	45090	Other passenger revenue, domestic	86	194 133	5 170	2.7	Z	X

See footnotes at end of table.

Table 3. Product Lines by Kind of Business for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line revenue			Response coverage ² (percent)
			Number	Total revenue (\$1,000)	Amount ¹ (\$1,000)	As percent of total revenue of—		
						Estab- lishments with the product line	All estab- lishments ¹	
48111		Scheduled air transportation ³ —Con.						
	45100	Scheduled international passenger revenue	494	2 976 102	2 436 472	81.9	23.1	X
	45110	Commuter international passenger revenue	31	99 562	43 765	44.0	.4	X
	45120	Charter international passenger revenue	56	517 552	8 824	1.7	.1	X
	45130	Sightseeing international passenger revenue	20	46 795	446	1.0	Z	X
	45140	Excess baggage charges, international passenger revenue	58	535 359	6 199	1.2	.1	X
	45150	Reservation cancellation fees, international passenger revenue	9	118 637	535	.5	Z	X
	45190	Other passenger revenue, international	26	363 665	15 866	4.4	.2	X
	45200	Domestic air freight revenue, including air courier services	971	5 075 509	909 658	17.9	8.6	X
	45210	International air freight revenue, including air courier services	464	3 160 892	847 388	26.8	8.0	X
	45220	Domestic air mail revenue, including air courier services	85	488 333	144 467	29.6	1.4	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	60	233 358	1 546	.7	Z	X
	45420	Aircraft rental or leasing without crew and/or pilot	10	57 104	2 145	3.8	Z	X
	45430	Aircraft maintenance and repair services	34	169 467	10 666	6.3	.1	X
	45450	Flight training and instruction services	7	46 220	105	.2	Z	X
	45490	Other airport or aircraft services	14	74 475	5 334	7.2	.1	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	21	219 312	4 686	2.1	Z	X
	49810	All other operating revenue	381	4 018 740	358 547	8.9	3.4	X
481111		Scheduled passenger air transportation ³	1 301	X	8 913 350	X	100.0	69.5
	43100	Fuel and lubricant sales	22	77 903	713	.9	Z	X
	43350	Aircraft parts and supplies sales	22	131 383	1 694	1.3	Z	X
	43750	Sales of other merchandise	15	106 158	89	.1	Z	X
	45000	Scheduled domestic passenger revenue	680	5 212 527	4 740 742	90.9	53.2	X
	45010	Commuter domestic passenger revenue	361	1 133 778	914 421	80.7	10.3	X
	45020	Charter domestic passenger revenue	90	951 500	31 286	3.3	.4	X
	45030	Sightseeing domestic passenger revenue	7	9 270	2 585	27.9	Z	X
	45040	Excess baggage charges, domestic passenger revenue	81	203 314	2 852	1.4	Z	X
	45050	Reservation cancellation fees, domestic passenger revenue	7	87 083	1 515	1.7	Z	X
	45090	Other passenger revenue, domestic	86	194 133	5 170	2.7	.1	X
	45100	Scheduled international passenger revenue	491	2 974 920	2 436 019	81.9	27.3	X
	45110	Commuter international passenger revenue	31	99 562	43 765	44.0	.5	X
	45120	Charter international passenger revenue	53	481 588	8 468	1.8	.1	X
	45130	Sightseeing international passenger revenue	20	46 795	446	1.0	Z	X
	45140	Excess baggage charges, international passenger revenue	55	534 177	6 150	1.2	.1	X
	45150	Reservation cancellation fees, international passenger revenue	9	118 637	535	.5	Z	X
	45190	Other passenger revenue, international	26	363 665	15 866	4.4	.2	X
	45200	Domestic air freight revenue, including air courier services	649	3 805 644	135 929	3.6	1.5	X
	45210	International air freight revenue, including air courier services	385	2 303 121	205 720	8.9	2.3	X
	45220	Domestic air mail revenue, including air courier services	42	219 803	25 938	11.8	.3	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	29	163 114	267	.2	Z	X
	45430	Aircraft maintenance and repair services	11	62 304	178	.3	Z	X
	45490	Other airport or aircraft services	9	36 812	446	1.2	Z	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	11	64 354	980	1.5	Z	X
	49810	All other operating revenue	368	3 875 970	329 348	8.5	3.7	X
481112		Scheduled freight air transportation	373	X	1 618 528	X	100.0	62.3
	43100	Fuel and lubricant sales	13	65 971	8 044	12.2	.5	X
	43350	Aircraft parts and supplies sales	8	35 203	1 845	5.2	.1	X
	45020	Charter domestic passenger revenue	105	344 487	21 560	6.3	1.3	X
	45200	Domestic air freight revenue, including air courier services	322	1 269 865	773 729	60.9	47.8	X
	45210	International air freight revenue, including air courier services	79	857 771	641 668	74.8	39.6	X
	45220	Domestic air mail revenue, including air courier services	43	268 530	118 529	44.1	7.3	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	31	70 244	1 279	1.8	.1	X
	45420	Aircraft rental or leasing without crew and/or pilot	8	48 993	2 056	4.2	.1	X
	45430	Aircraft maintenance and repair services	23	107 163	10 488	9.8	.6	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	10	154 958	3 706	2.4	.2	X
	49810	All other operating revenue	13	142 770	29 199	20.5	1.8	X
4812		Nonscheduled air transportation	2 173	X	7 441 159	X	100.0	80.5
	41010	Bus or other motor vehicle service, transit passenger services	6	11 466	109	1.0	Z	X
	41170	Limousine or luxury sedan with drivers	6	8 955	109	1.2	Z	X
	43100	Fuel and lubricant sales	359	932 755	138 316	14.8	1.9	X
	43300	New and used aircraft	74	625 229	43 819	7.0	.6	X
	43350	Aircraft parts and supplies sales	233	694 997	38 820	5.6	.5	X
	43750	Sales of other merchandise	176	373 517	15 716	4.2	.2	X
	45000	Scheduled domestic passenger revenue	11	89 646	2 907	3.2	Z	X
	45010	Commuter domestic passenger revenue	9	12 316	2 119	17.2	Z	X
	45020	Charter domestic passenger revenue	1 554	5 374 136	3 576 436	66.5	48.1	X
	45030	Sightseeing domestic passenger revenue	131	145 282	17 636	12.1	.2	X
	45040	Excess baggage charges, domestic passenger revenue	8	4 860	164	3.4	Z	X
	45050	Reservation cancellation fees, domestic passenger revenue	16	42 316	164	.4	Z	X
	45090	Other passenger revenue, domestic	87	162 410	25 666	15.8	.3	X
	45100	Scheduled international passenger revenue	6	251 821	29 266	11.6	.4	X
	45120	Charter international passenger revenue	322	3 424 830	1 100 017	32.1	14.8	X

See footnotes at end of table.

Table 3. Product Lines by Kind of Business for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line revenue			Response coverage ² (percent)
			Number	Total revenue (\$1,000)	Amount ¹ (\$1,000)	As percent of total revenue of—		
						Estab- lishments with the product line	All estab- lishments ¹	
4812		Nonscheduled air transportation—Con.						
	45130	Sightseeing international passenger revenue	6	2 020	109	5.4	Z	X
	45190	Other passenger revenue, international	17	47 849	2 338	4.9	Z	X
	45200	Domestic air freight revenue, including air courier services	361	1 653 362	624 501	37.8	8.4	X
	45210	International air freight revenue, including air courier services	145	1 409 359	370 099	26.3	5.0	X
	45220	Domestic air mail revenue, including air courier services	28	236 403	217 569	92.0	2.9	X
	45300	Air ambulance	67	249 831	20 591	8.2	.3	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	271	764 409	26 676	3.5	.4	X
	45420	Aircraft rental or leasing without crew and/or pilot	200	612 368	56 223	9.2	.8	X
	45430	Aircraft maintenance and repair services	399	1 377 551	162 002	11.8	2.2	X
	45440	Aircraft cleaning services	50	149 793	1 747	1.2	Z	X
	45450	Flight training and instruction services	220	366 989	13 082	3.6	.2	X
	45490	Other airport or aircraft services	171	568 775	60 258	10.6	.8	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	498	898 888	796 469	88.6	10.7	X
	49810	All other operating revenue	243	813 910	85 777	10.5	1.2	X
48121		Nonscheduled air transportation	2 173	X	7 441 159	X	100.0	80.5
	41010	Bus or other motor vehicle service, transit passenger services	6	11 466	109	1.0	Z	X
	41170	Limousine or luxury sedan with drivers	6	8 955	109	1.2	Z	X
	43100	Fuel and lubricant sales	359	932 755	138 316	14.8	1.9	X
	43300	New and used aircraft	74	625 229	43 819	7.0	.6	X
	43350	Aircraft parts and supplies sales	233	694 997	38 820	5.6	.5	X
	43750	Sales of other merchandise	176	373 517	15 716	4.2	.2	X
	45000	Scheduled domestic passenger revenue	11	89 646	2 907	3.2	Z	X
	45010	Commuter domestic passenger revenue	9	12 316	2 119	17.2	Z	X
	45020	Charter domestic passenger revenue	1 554	5 374 136	3 576 436	66.5	48.1	X
	45030	Sightseeing domestic passenger revenue	131	145 282	17 636	12.1	.2	X
	45040	Excess baggage charges, domestic passenger revenue	8	4 860	164	3.4	Z	X
	45050	Reservation cancellation fees, domestic passenger revenue	16	42 316	164	.4	Z	X
	45090	Other passenger revenue, domestic	87	162 410	25 666	15.8	.3	X
	45100	Scheduled international passenger revenue	6	251 821	29 266	11.6	.4	X
	45120	Charter international passenger revenue	322	3 424 830	1 100 017	32.1	14.8	X
	45130	Sightseeing international passenger revenue	6	2 020	109	5.4	Z	X
	45190	Other passenger revenue, international	17	47 849	2 338	4.9	Z	X
	45200	Domestic air freight revenue, including air courier services	361	1 653 362	624 501	37.8	8.4	X
	45210	International air freight revenue, including air courier services	145	1 409 359	370 099	26.3	5.0	X
	45220	Domestic air mail revenue, including air courier services	28	236 403	217 569	92.0	2.9	X
	45300	Air ambulance	67	249 831	20 591	8.2	.3	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	271	764 409	26 676	3.5	.4	X
	45420	Aircraft rental or leasing without crew and/or pilot	200	612 368	56 223	9.2	.8	X
	45430	Aircraft maintenance and repair services	399	1 377 551	162 002	11.8	2.2	X
	45440	Aircraft cleaning services	50	149 793	1 747	1.2	Z	X
	45450	Flight training and instruction services	220	366 989	13 082	3.6	.2	X
	45490	Other airport or aircraft services	171	568 775	60 258	10.6	.8	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	498	898 888	796 469	88.6	10.7	X
	49810	All other operating revenue	243	813 910	85 777	10.5	1.2	X
481211		Nonscheduled chartered passenger air transportation	1 455	X	5 460 121	X	100.0	79.3
	41010	Bus or other motor vehicle service, transit passenger services	6	11 466	109	1.0	Z	X
	41170	Limousine or luxury sedan with drivers	6	8 955	109	1.2	Z	X
	43100	Fuel and lubricant sales	286	805 477	122 361	15.2	2.2	X
	43300	New and used aircraft	64	454 064	27 410	6.0	.5	X
	43350	Aircraft parts and supplies sales	164	553 984	27 028	4.9	.5	X
	43750	Sales of other merchandise	138	210 488	2 184	1.0	Z	X
	45000	Scheduled domestic passenger revenue	8	84 523	2 239	2.6	Z	X
	45010	Commuter domestic passenger revenue	6	6 279	983	15.7	Z	X
	45020	Charter domestic passenger revenue	1 431	5 158 777	3 559 615	69.0	65.2	X
	45030	Sightseeing domestic passenger revenue	98	123 617	17 090	13.8	.3	X
	45040	Excess baggage charges, domestic passenger revenue	8	4 860	164	3.4	Z	X
	45050	Reservation cancellation fees, domestic passenger revenue	16	42 316	164	.4	Z	X
	45090	Other passenger revenue, domestic	78	158 835	25 553	16.1	.5	X
	45100	Scheduled international passenger revenue	6	251 821	29 266	11.6	.5	X
	45120	Charter international passenger revenue	310	3 370 860	1 097 812	32.6	20.1	X
	45130	Sightseeing international passenger revenue	6	2 020	109	5.4	Z	X
	45190	Other passenger revenue, international	14	47 448	2 293	4.8	Z	X
	45200	Domestic air freight revenue, including air courier services	152	784 456	33 744	4.3	.6	X
	45210	International air freight revenue, including air courier services	30	649 754	100 958	15.5	1.8	X
	45220	Domestic air mail revenue, including air courier services	12	17 582	601	3.4	Z	X
	45300	Air ambulance	54	193 725	14 033	7.2	.3	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	230	676 727	25 663	3.8	.5	X
	45420	Aircraft rental or leasing without crew and/or pilot	164	555 294	53 782	9.7	1.0	X
	45430	Aircraft maintenance and repair services	296	1 203 520	154 958	12.9	2.8	X
	45440	Aircraft cleaning services	46	143 601	1 747	1.2	Z	X

See footnotes at end of table.

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2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line revenue			Response coverage ² (percent)
			Number	Total revenue (\$1,000)	Amount ¹ (\$1,000)	As percent of total revenue of—		
						Estab- lishments with the product line	All estab- lishments ¹	
481211		Nonscheduled chartered passenger air transportation—Con.						
	45450	Flight training and instruction services	162	281 196	11 248	4.0	.2	X
	45490	Other airport or aircraft services	144	531 270	58 478	11.0	1.1	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	20	31 614	6 061	19.2	.1	X
	49810	All other operating revenue	194	769 167	82 775	10.8	1.5	X
481212		Nonscheduled chartered freight air transportation	240	X	1 113 764	X	100.0	86.1
	43100	Fuel and lubricant sales	21	38 547	2 183	5.7	.2	X
	43350	Aircraft parts and supplies sales	21	51 233	3 397	6.6	.3	X
	45020	Charter domestic passenger revenue	42	110 931	12 407	11.2	1.1	X
	45120	Charter international passenger revenue	8	16 885	557	3.3	.1	X
	45200	Domestic air freight revenue, including air courier services	203	862 610	590 505	68.5	53.0	X
	45210	International air freight revenue, including air courier services	113	726 675	262 888	36.2	23.6	X
	45220	Domestic air mail revenue, including air courier services	16	218 821	216 968	99.2	19.5	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	16	22 498	267	1.2	Z	X
	45420	Aircraft rental or leasing without crew and/or pilot	13	24 959	1 270	5.1	.1	X
	45430	Aircraft maintenance and repair services	24	88 934	3 575	4.0	.3	X
	45450	Flight training and instruction services	16	13 220	256	1.9	Z	X
	45490	Other airport or aircraft services	8	15 459	479	3.1	Z	X
	49810	All other operating revenue	18	13 087	2 005	15.3	.2	X
481219		Other nonscheduled air transportation	478	X	867 274	X	100.0	81.5
	43100	Fuel and lubricant sales	52	88 731	13 772	15.5	1.6	X
	43300	New and used aircraft	10	171 165	16 409	9.6	1.9	X
	43350	Aircraft parts and supplies sales	48	89 780	8 395	9.4	1.0	X
	43750	Sales of other merchandise	33	158 451	13 521	8.5	1.6	X
	45020	Charter domestic passenger revenue	81	104 428	4 414	4.2	.5	X
	45030	Sightseeing domestic passenger revenue	33	21 665	546	2.5	.1	X
	45090	Other passenger revenue, domestic	6	3 174	113	3.6	Z	X
	45200	Domestic air freight revenue, including air courier services	6	6 296	252	4.0	Z	X
	45300	Air ambulance	8	40 536	2 281	5.6	.3	X
	45410	Airport and/or aircraft ramp service, parking, tie down, and storage fees	25	65 184	746	1.1	.1	X
	45420	Aircraft rental or leasing without crew and/or pilot	23	32 115	1 171	3.6	.1	X
	45430	Aircraft maintenance and repair services	79	85 097	3 469	4.1	.4	X
	45450	Flight training and instruction services	42	72 573	1 578	2.2	.2	X
	45490	Other airport or aircraft services	19	22 046	1 301	5.9	.2	X
	45500	Other specialized flying services, including crop dusting, aerial forest fire fighting, aerial advertising and photography, aviation clubs, and aerial surveying	478	867 274	790 408	91.1	91.1	X
	49810	All other operating revenue	31	31 656	997	3.1	.1	X

¹Product line revenue and/or product line percents may not sum to totals due to exclusion of selected lines to avoid disclosing data for individual companies, due to rounding, and/or due to exclusion of lines that did not meet publication criteria.

²Revenue of establishments reporting product line revenue as percent of total revenue.

³Data do not include large certificated passenger carriers that report to the Office of Airline Information, U.S. Department of Transportation.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Table 4. Concentration by Largest Firms for the United States: 2002

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only firms and establishments of firms with payroll. Excludes data for corporate, subsidiary, and regional managing offices and establishments of these firms that are classified in other categories than those specified in this table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For method of assignment to categories shown, see Appendix C. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

2002 NAICS code	Kind of business and largest firms based on revenue	Establishments (number)	Revenue		Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)
			Amount (\$1,000)	As percent of total			
481	Air transportation ¹						
	All firms	3 847	17 973 037	100.0	3 549 375	823 086	85 884
	4 largest firms	94	3 355 475	18.7	644 184	154 591	15 794
	8 largest firms	231	5 290 264	29.4	886 564	197 949	20 765
	20 largest firms	386	7 987 317	44.4	1 250 348	282 539	28 000
	50 largest firms	778	11 127 044	61.9	2 013 939	463 473	48 186
4811	Scheduled air transportation ¹						
	All firms	1 674	10 531 878	100.0	2 027 805	468 592	54 588
	4 largest firms	123	3 001 369	28.5	524 318	126 258	14 147
	8 largest firms	241	4 527 252	43.0	777 039	170 146	20 015
	20 largest firms	425	6 751 034	64.1	1 005 136	224 721	25 288
	50 largest firms	874	8 733 288	82.9	1 547 017	350 472	40 797
48111	Scheduled air transportation ¹						
	All firms	1 674	10 531 878	100.0	2 027 805	468 592	54 588
	4 largest firms	123	3 001 369	28.5	524 318	126 258	14 147
	8 largest firms	241	4 527 252	43.0	777 039	170 146	20 015
	20 largest firms	425	6 751 034	64.1	1 005 136	224 721	25 288
	50 largest firms	874	8 733 288	82.9	1 547 017	350 472	40 797
481111	Scheduled passenger air transportation ¹						
	All firms	1 301	8 913 350	100.0	1 673 720	381 927	45 164
	4 largest firms	123	3 001 369	33.7	524 318	126 258	14 147
	8 largest firms	241	4 527 252	50.8	777 039	170 146	20 015
	20 largest firms	482	6 516 182	73.1	1 186 141	262 783	31 565
	50 largest firms	835	8 014 816	89.9	1 443 883	322 912	38 461
481112	Scheduled freight air transportation						
	All firms	373	1 618 528	100.0	354 085	86 665	9 424
	4 largest firms	54	550 323	34.0	118 763	30 431	2 657
	8 largest firms	59	774 590	47.9	147 605	36 490	3 163
	20 largest firms	107	1 125 239	69.5	230 319	56 176	5 832
	50 largest firms	204	1 436 435	88.7	306 762	74 813	7 902
4812	Nonscheduled air transportation						
	All firms	2 173	7 441 159	100.0	1 521 570	354 494	31 296
	4 largest firms	15	1 760 015	23.7	324 731	77 814	4 994
	8 largest firms	34	2 407 768	32.4	457 209	113 829	7 493
	20 largest firms	51	3 324 786	44.7	666 092	163 281	11 234
	50 largest firms	98	4 323 891	58.1	840 133	201 332	14 441
48121	Nonscheduled air transportation						
	All firms	2 173	7 441 159	100.0	1 521 570	354 494	31 296
	4 largest firms	15	1 760 015	23.7	324 731	77 814	4 994
	8 largest firms	34	2 407 768	32.4	457 209	113 829	7 493
	20 largest firms	51	3 324 786	44.7	666 092	163 281	11 234
	50 largest firms	98	4 323 891	58.1	840 133	201 332	14 441
481211	Nonscheduled chartered passenger air transportation						
	All firms	1 455	5 460 121	100.0	1 051 670	251 735	21 780
	4 largest firms	26	1 713 640	31.4	293 129	71 144	5 055
	8 largest firms	30	2 195 528	40.2	372 405	93 911	7 142
	20 largest firms	49	2 795 228	51.2	503 580	126 336	8 973
	50 largest firms	88	3 471 104	63.6	623 669	154 654	11 249
481212	Nonscheduled chartered freight air transportation						
	All firms	240	1 113 764	100.0	260 749	61 021	4 861
	4 largest firms	9	549 160	49.3	139 591	33 471	1 948
	8 largest firms	15	735 687	66.1	165 020	39 676	2 541
	20 largest firms	32	916 763	82.3	214 723	50 618	3 462
	50 largest firms	67	1 041 968	93.6	243 362	56 943	4 245
481219	Other nonscheduled air transportation						
	All firms	478	867 274	100.0	209 151	41 738	4 655
	4 largest firms	8	316 400	36.5	79 828	15 148	1 383
	8 largest firms	37	405 099	46.7	98 257	19 093	1 697
	20 largest firms	53	546 415	63.0	132 808	25 141	2 358
	50 largest firms	93	674 187	77.7	162 743	31 248	3 062

¹Data do not include large certificated passenger carriers that report to the Office of Airline Information, U.S. Department of Transportation.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Appendix A.

Explanation of Terms

ANNUAL PAYROLL

Payroll includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation allowances, sick-leave pay, and employee contributions to qualified pension plans paid during the year to all employees and reported on Internal Revenue Service (IRS) Form 941 as taxable Medicare Wages and tips (even if not subject to income or FICA tax). For corporations, payroll includes amounts paid to officers and executives; for unincorporated businesses, it does not include profit or other compensation of proprietors or partners. Payroll is reported before deductions for social security, income tax, insurance, union dues, etc. This definition of payroll is the same as that used by the IRS on Form 941.

ESTABLISHMENTS

An establishment is a single physical location at which business is conducted. It is not necessarily identical to a company or enterprise, which may consist of one establishment or more. Economic census figures represent a summary of reports for individual establishments rather than companies. For cases where a census report was received, separate information was obtained for each location where business was conducted. When administrative records of other federal agencies were used instead of a census report, no information was available on the number of locations operated. Each economic census establishment was tabulated according to the physical location at which the business was conducted. The count of establishments represents those in business at any time during 2002.

When two or more activities were carried on at a single location under a single ownership, all activities generally were grouped together as a single establishment. The entire establishment was classified on the basis of its major activity and all data for it were included in that classification. However, when distinct and separate economic activities (for which different industry classification codes were appropriate) were conducted at a single location under a single ownership, separate establishment reports for each of the different activities were obtained in the census.

FIRMS

A firm is a business organization or entity consisting of one domestic establishment (location) or more under common ownership or control. All establishments of subsidiary firms are included as part of the owning or controlling firm. For the economic census, the terms “firm” and “company” are synonymous.

FIRST-QUARTER PAYROLL

Represents payroll paid to persons employed at any time during the quarter January to March 2002.

PAID EMPLOYEES FOR PAY PERIOD INCLUDING MARCH 12

Paid employees consist of full- and part-time employees, including salaried officers and executives of corporations, who were on the payroll during the pay period including March 12. Included are employees on paid sick leave, paid holidays, and paid vacations; not included are proprietors and partners of unincorporated businesses; full- and part-time leased employees whose payroll was filed under an employee leasing company's Employer Identification Number (EIN); and temporary staffing obtained from a staffing service. The definition of paid employees is the same as that used by the Internal Revenue Service (IRS) on Form 941.

REVENUE

Includes revenue from all business activities whether or not payment was received in the census year. Revenue does not include sales and other taxes (including Hawaii's General Excise Tax) collected from customers and paid directly by the firm to a local, state, or federal tax agency.

Appendix B.

NAICS Codes, Titles, and Descriptions

PART 1. 2002 NAICS

481 AIR TRANSPORTATION

Industries in the Air Transportation subsector provide air transportation of passengers and/or cargo using aircraft, such as airplanes and helicopters. The subsector distinguishes scheduled from nonscheduled air transportation. Scheduled air carriers fly regular routes on regular schedules and operate even if flights are only partially loaded. Nonscheduled carriers often operate during nonpeak time slots at busy airports. These establishments have more flexibility with respect to choice of airport, hours of operation, load factors, and similar operational characteristics. Nonscheduled carriers provide chartered air transportation of passengers, cargo, or specialty flying services. Specialty flying services establishments use general purpose aircraft to provide a variety of specialized flying services.

Scenic and sightseeing air transportation and air courier services are not included in this subsector but are included in Subsector 487, Scenic and Sightseeing Transportation and in Subsector 492, Couriers and Messengers. Although these activities may use aircraft, they are different from the activities included in air transportation. Air sightseeing does not usually involve place-to-place transportation; the passenger's flight (e.g., balloon ride, aerial sightseeing) typically starts and ends at the same location. Courier services (individual package or cargo delivery) includes more than air transportation; road transportation is usually required to deliver the cargo to the intended recipient.

4811 SCHEDULED AIR TRANSPORTATION

This industry group comprises establishments primarily engaged in providing air transportation of passengers and/or cargo over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

48111 SCHEDULED AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of passengers and/or cargo over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

481111 SCHEDULED PASSENGER AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of passengers or passengers and freight over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Scheduled air passenger carriers including commuter and helicopter carriers (except scenic and sightseeing) are included in this industry.

481112 SCHEDULED FREIGHT AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of cargo without transporting passengers over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

4812 NONSCHEDULED AIR TRANSPORTATION

This industry group comprises establishments primarily engaged in (1) providing air transportation of passengers and/or cargo with no regular routes and regular schedules or (2) providing specialty flying services with no regular routes and regular schedules using general purpose aircraft. These establishments have more flexibility with respect to choice of airports, hours of operation, load factors, and similar operational characteristics.

48121 NONSCHEDULED AIR TRANSPORTATION

This industry comprises establishments primarily engaged in (1) providing air transportation of passengers and/or cargo with no regular routes and regular schedules or (2) providing specialty flying services with no regular routes and regular schedules using general purpose aircraft. These establishments have more flexibility with respect to choice of airports, hours of operation, load factors, and similar operational characteristics.

481211 NONSCHEDULED CHARTERED PASSENGER AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of passengers or passengers and cargo with no regular routes and regular schedules.

481212 NONSCHEDULED CHARTERED FREIGHT AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of cargo without transporting passengers with no regular routes and regular schedules.

481219 OTHER NONSCHEDULED AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation with no regular routes and regular schedules (except nonscheduled chartered passenger and/or cargo air transportation). These establishments provide a variety of specialty air transportation or flying services based on individual customer needs using general purpose aircraft.

PART 2. 1997 NAICS

481 AIR TRANSPORTATION

Industries in the Air Transportation subsector provide air transportation of passengers and/or cargo using aircraft, such as airplanes and helicopters. The subsector distinguishes scheduled from nonscheduled air transportation. Scheduled air carriers fly regular routes on regular schedules and operate even if flights are only partially loaded. Nonscheduled carriers often operate during nonpeak time slots at busy airports. These establishments have more flexibility with respect to choice of airport, hours of operation, load factors, and similar operational characteristics. Nonscheduled carriers provide chartered air transportation of passengers, cargo, or specialty flying services. Specialty flying services establishments use general purpose aircraft to provide a variety of specialized flying services.

Scenic and sightseeing air transportation and air courier services are not included in this subsector but are included in Subsector 487, Scenic and Sightseeing Transportation and in Subsector 492, Couriers and Messengers. Although these activities may use aircraft, they are different from the activities included in air transportation. Air sightseeing does not usually involve place-to-place transportation; the passenger's flight (e.g., balloon ride, aerial sightseeing) typically starts and ends at the same location. Courier services (individual package or cargo delivery) includes more than air transportation; road transportation is usually required to deliver the cargo to the intended recipient.

4811 SCHEDULED AIR TRANSPORTATION

This industry group comprises establishments primarily engaged in providing air transportation of passengers and/or cargo over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

48111 SCHEDULED AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of passengers and/or cargo over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

481111 SCHEDULED PASSENGER AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of passengers or passengers and freight over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Scheduled air passenger carriers including commuter and helicopter carriers (except scenic and sightseeing) are included in this industry.

481112 SCHEDULED FREIGHT AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of cargo without transporting passengers over regular routes and on regular schedules. Establishments in this industry operate flights, even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

4812 NONSCHEDULED AIR TRANSPORTATION

This industry group comprises establishments primarily engaged in (1) providing air transportation of passengers and/or cargo with no regular routes and regular schedules or (2) providing specialty flying services with no regular routes and regular schedules using general purpose aircraft. These establishments have more flexibility with respect to choice of airports, hours of operation, load factors, and similar operational characteristics.

48121 NONSCHEDULED AIR TRANSPORTATION

This industry comprises establishments primarily engaged in (1) providing air transportation of passengers and/or cargo with no regular routes and regular schedules or (2) providing specialty flying services with no regular routes and regular schedules using general purpose aircraft. These establishments have more flexibility with respect to choice of airports, hours of operation, load factors, and similar operational characteristics.

481211 NONSCHEDULED CHARTERED PASSENGER AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of passengers or passengers and cargo with no regular routes and regular schedules.

481212 NONSCHEDULED CHARTERED FREIGHT AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation of cargo without transporting passengers with no regular routes and regular schedules.

481219 OTHER NONSCHEDULED AIR TRANSPORTATION

This industry comprises establishments primarily engaged in providing air transportation with no regular routes and regular schedules (except nonscheduled chartered passenger and/or cargo air transportation). These establishments provide a variety of specialty air transportation or flying services based on individual customer needs using general purpose aircraft.

Appendix C.

Methodology

SOURCES OF THE DATA

For this sector, large- and medium-size firms, plus all firms known to operate more than one establishment, were sent report forms to be completed for each of their establishments and returned to the Census Bureau. For most very small firms, data from existing administrative records of other federal agencies were used instead. These records provide basic information on location, kind of business, revenue, payroll, number of employees, and legal form of organization.

Firms in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

1. Establishments sent a report form:
 - a. Large employers, i.e., all multiestablishment firms, and all employer firms with payroll above a specified cutoff. (The term “employers” refers to firms with one or more paid employees at any time during 2002 as shown in the active administrative records of other federal agencies.)
 - b. A sample of small employers, i.e., single-establishment firms with payroll below a specified cutoff in classifications for which specialized data precludes reliance solely on administrative records sources. The sample was stratified by industry and geography.
2. Establishments not sent a report form:
 - a. Small employers, i.e., single-establishment firms with payroll below a specified cutoff, not selected into the small employer sample. Although the payroll cutoff varies by kind of business, small employers not sent a report form generally include firms with less than 10 employees and represent about 10 percent of total revenue of establishments covered in the census. Data on revenue, payroll, and employment for these small employers were derived or estimated from administrative records of other federal agencies.
 - b. All nonemployers, i.e., all firms subject to federal income tax with no paid employees during 2002. Revenue information for these firms was obtained from administrative records of other federal agencies. Although consisting of many firms, nonemployers account for less than 10 percent of total revenue of all establishments covered in the census. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms used to collect information for establishments in this sector are available at help.econ.census.gov/econhelp/resources/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at www.census.gov/econ/www/history.html.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

The classifications for all establishments are based on the *North American Industry Classification System, United States, 2002* manual. There were no changes between the 2002 edition and the 1997 edition affecting this sector. Tables at www.census.gov/epcd/naics02/ identify all industries that changed between the 1997 North American Industry Classification System (NAICS) and 2002 NAICS.

The method of assigning classifications and the level of detail at which establishments were classified depends on whether a report form was obtained for the establishment.

1. Establishments that returned a report form were classified on the basis of their self-designation, product line revenue, and responses to other industry-specific inquiries.
2. Establishments without a report form:
 - a. Small employers not sent a form were, where possible, classified on the basis of the most current kind-of-business classification available from one of the Census Bureau's current sample surveys or the 1997 Economic Census. Otherwise, the classification was obtained from administrative records of other federal agencies. If the census or administrative record classifications proved inadequate (none corresponded to a 2002 Economic Census classification in the detail required for employers), the firm was sent a brief inquiry requesting information necessary to assign a kind-of-business code.
 - b. Nonemployers were classified on the basis of information obtained from administrative records of other federal agencies.

RELIABILITY OF DATA

All data compiled in the economic census are subject to nonsampling errors. Nonsampling errors can be attributed to many sources during the development or execution of the census:

- inability to identify all cases in the actual universe;
- definition and classification difficulties;
- differences in the interpretation of questions;
- errors in recording or coding the data obtained; and
- other errors of collection, response, coverage, processing, and estimation for missing or misreported data.

Data presented in the Miscellaneous Subjects and the Product Lines reports for this sector are subject to sampling errors, as well as nonsampling errors. Specifically, these data are estimated based on information obtained from census report forms mailed to all large employers and to a sample of small employers in the universe. Sampling errors affect these estimates, insofar, as they may differ from results that would be obtained from a complete enumeration.

The accuracy of these tabulated data is determined by the joint effects of the various nonsampling errors or by the joint effects of sampling and nonsampling errors. No direct measurement of these effects has been obtained except for estimation for missing or misreported data; however, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors.

The Census Bureau obtains limited information extracted from administrative records of other federal agencies, such as gross revenue from federal income tax records and employment and payroll from payroll tax records. This information is used in conjunction with other information available to the Census Bureau to develop estimates for nonemployers, small employers, and other establishments for which responses were not received in time for publication.

Key tables in this report include a column for "Percent of revenue from administrative records." This includes revenue information obtained from administrative records of other federal agencies. The "Percent of revenue estimated" includes revenue information that was imputed based on historic company ratios or administrative records, or on industry averages.

The Census Bureau recommends that data users incorporate this information into their analyses, as nonsampling error and sampling error could impact the conclusions drawn from economic census data.

TREATMENT OF NONRESPONSE

Census report forms included two different types of inquiries, “basic” and “industry-specific.” Data for the basic inquiries, which include location, kind of business or operation, revenue, payroll, and number of employees, were available from a combination of sources for all establishments. Data for industry-specific inquiries, tailored to the particular kinds of business or operation covered by the report form, were available only from establishments responding to those inquiries.

Data for industry-specific inquiries in this sector were expanded in most cases to account for establishments that did not respond to the particular inquiry for which data are presented. Unless otherwise noted in specific reports, data for industry-specific inquiries were expanded in direct relationship to total revenue of all establishments included in the category. In a few cases, expansion on the basis of the revenue item was not appropriate, and another basic data item was used as the basis for expansion of reported data to account for nonrespondents.

All reports in which industry-specific data were expanded include a coverage indicator for each publication category, which shows the revenue of establishments responding to the industry-specific inquiry as a percent of total revenue for all establishments for which data are shown. For some inquiries, coverage is determined by the ratio of total payroll or employment of establishments responding to the inquiry to total payroll or employment of all establishments in the category.

CONCENTRATION CATEGORIES

Concentration categories are based on aggregate revenue of all establishments operated by the same firm in a given kind-of-business classification or group for which data are presented. For example, a firm operating three transportation and warehousing establishments – a freight forwarding service (NAICS 488510), a packing and crating service (NAICS 488991), and a general merchandise warehousing and storage facility (NAICS 493110) – would be treated as three one-establishment firms at the most detailed NAICS level, as a two-establishment firm in NAICS 488 and a one-establishment firm in NAICS 493, and as a single three-establishment firm in Transportation and Warehousing totals (NAICS 48-49).

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or business. However, the number of establishments in a kind-of-business classification is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan and Micropolitan Statistical Areas

Not applicable for this report.

